

## COURSE SCHEDULE (TENTATIVE)

### SEAMS-UGM-ITB SUMMER COURSE ON CODING THEORY AND CRYPTOGRAPHY

Time	Activity	Speaker
Day 1		
08.30 – 09.00	Opening	
09.00 – 10.30	Introduction to coding theory	Dr. Al. Sutjijana
10.30 – 11.00	Coffee break	
11.00 – 12.30	Introduction to coding theory	Dr. Al. Sutjijana
12.30 – 13.30	Lunch	
13.30 – 15.00	Introduction to cryptography	Dr. Diah Junia Eksi Palupi
15.00 – 15.30	Coffee break	
15.30 – 16.30	Tutorial	
Day 2		
09.00 – 10.30	Introduction to cryptography	Dr. Diah Junia Eksi Palupi
10.30 – 11.00	Coffee break	
11.00 – 12.30	Coding theory in algebra	Dr. Aleams Barra
12.30 – 13.30	Lunch	
13.30 – 15.00	Coding theory in algebra	Dr. Aleams Barra
15.00 – 15.30	Coffee break	
15.30 – 16.30	Tutorial	
Day 3		
09.00 – 10.30	Cryptography in computation	Dr. Mardhani Riasetiawan
10.30 – 11.00	Coffee break	
11.00 – 12.30	Cryptography in computation	Dr. Mardhani Riasetiawan
12.30 – 13.30	Lunch	
13.30 – 15.00	Cryptography in computation	Dr. Ridi Ferdiana
15.00 – 15.30	Coffee break	
15.30 – 16.30	Tutorial	
Day 4		
09.00 – 10.30	Introduction to quantum physics	Dr. Pekik Nurwantoro
10.30 – 11.00	Coffee break	
11.00 – 12.30	Physics in cryptography	Dr. Raditya Weda Bomantara
12.30 – 13.30	Lunch	
13.30 – 15.00	Physics in cryptography	Dr. Raditya Weda Bomantara
15.00 – 15.30	Coffee break	
15.30 – 16.30	Tutorial	
Day 5		
09.00 – 10.30	Code-based PKC	Dr. Frederic Ezerman
10.30 – 11.00	Coffee break	
11.00 – 12.30	Quantum key distribution	Dr. Frederic Ezerman

12.30 – 13.30	Lunch	
13.30 – 15.00	Introduction to Quantum Codes	Dr. Frederic Ezerman
15.00 – 15.30	Coffee break	
15.30 – 16.30	Tutorial	
EXCURSION		
EXCURSION		
Day 6		
09.00 – 10.30	Introduction to Secret Sharing	Dr. Romar de la Cruz
10.30 – 11.00	Coffee break	
11.00 – 12.30	Secret Sharing Protocols	Dr. Romar de la Cruz
12.30 – 13.30	Lunch	
13.30 – 15.00	Introduction to Hash Functions	Dr. Guo Jian
15.00 – 15.30	Coffee break	
15.30 – 16.30	Hash Functions	Dr. Guo Jian
Day 7		
09.00 – 10.30	Intro to Lattice-based PKC	Dr. Khoa Nguyen
10.30 – 11.00	Coffee break	
11.00 – 12.30	Lattice-based PKC	Dr. Khoa Nguyen
12.30 – 13.30	Lunch	
13.30 – 15.00	Differential Cryptanalysis	Dr. Ivan Tjuawinata
15.00 – 15.30	Coffee break	
15.30 – 16.30	Multi Party Computations	Dr. Ivan Tjuawinata
Day 8		
09.00 – 10.30	Coding for Secrecy I	Dr. Lin Fuchun
10.30 – 11.00	Coffee break	
11.00 – 12.30	Coding for Secrecy II	Dr. Lin Fuchun
12.30 – 13.30	Lunch	
13.30 – 15.00	Intro to Cyber-Physical Security	Dr. Wei Lei
15.00 – 15.30	Coffee break	
15.30 – 16.30	Cyber-Physical Security	Dr. Wei Lei
Day 9		
09.00 – 10.30	Linear Complementary Dual Codes	Dr. Buket Ozkaya
10.30 – 11.00	Coffee break	
11.00 – 12.30	Applications of LCD Codes	Dr. Buket Ozkaya
12.30 – 13.30	Lunch	
13.30 – 15.00	Intro to Lightweight Cryptography	Dr. Jakub Breier
15.00 – 15.30	Coffee break	
15.30 – 16.30	Evaluation and Certification of Devices	Dr. Jakub Breier

Day 10		
09.00 – 10.30	(To be determined)	A speaker from Cybercrime Division POLRI
10.30 – 11.00	Coffee break	
11.00 – 12.30	(To be determined)	A speaker from ST Sandi Negara
12.30 – 13.30	Lunch	
13.30 – 15.00	Rump Session	A moderator (to be determined)
15.00 – 15.30	Coffee break	
15.30 – 16.00	Closing	Dr. Indah Emilia Wijayanti